

FIG. 1

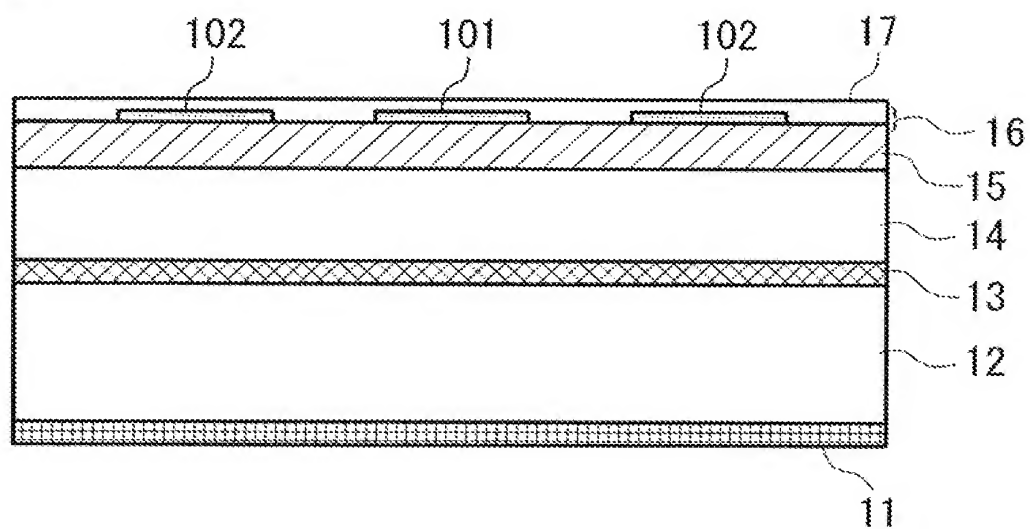


FIG. 2

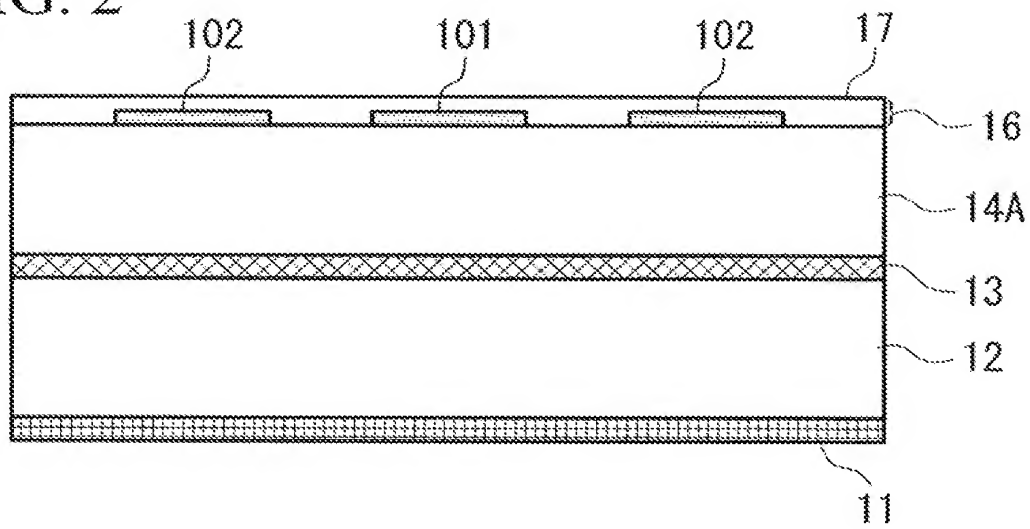


FIG. 3

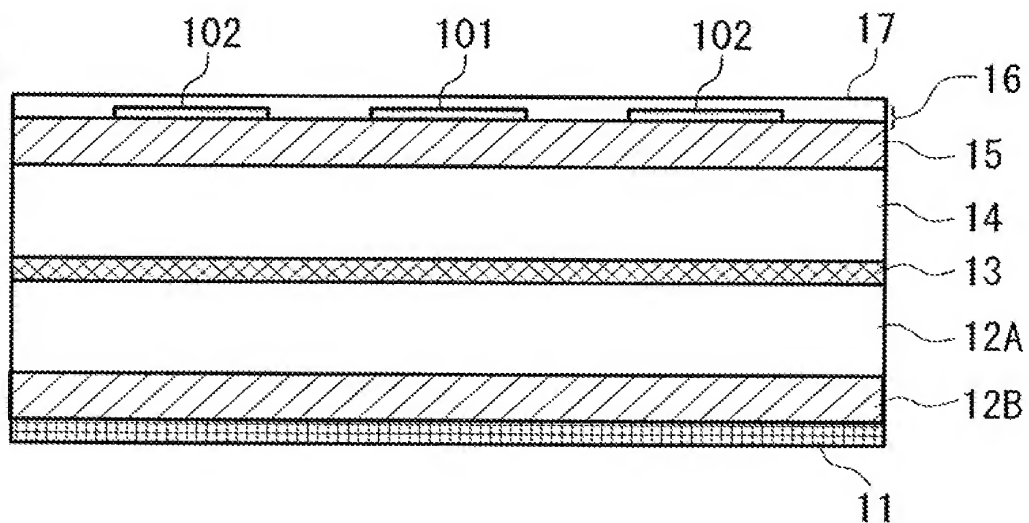


FIG. 4

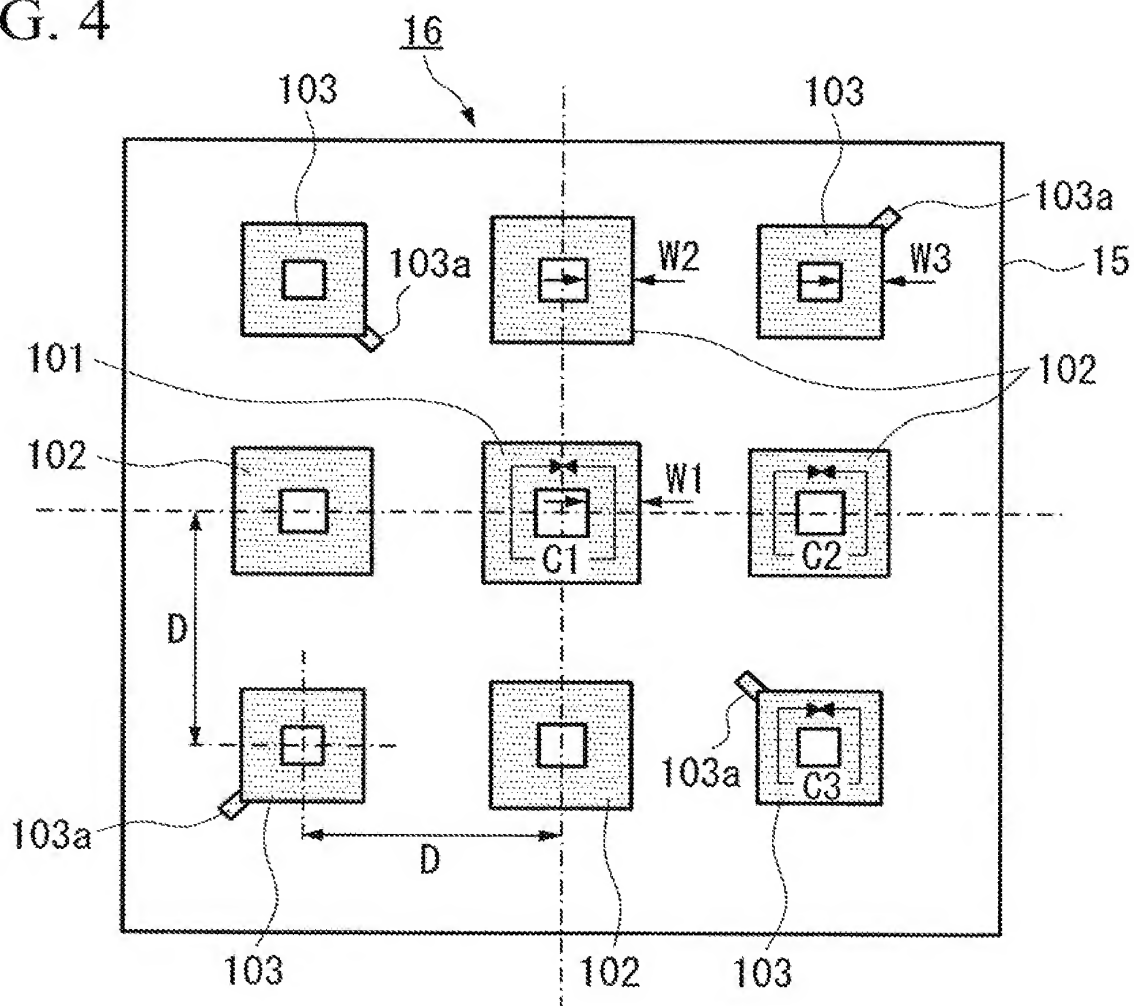


FIG. 5

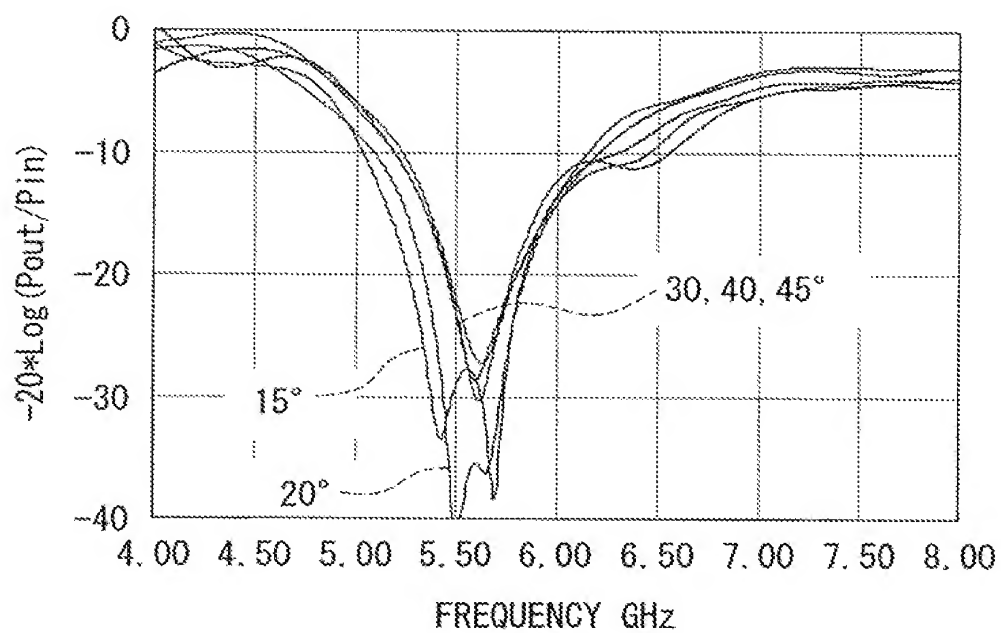


FIG. 6

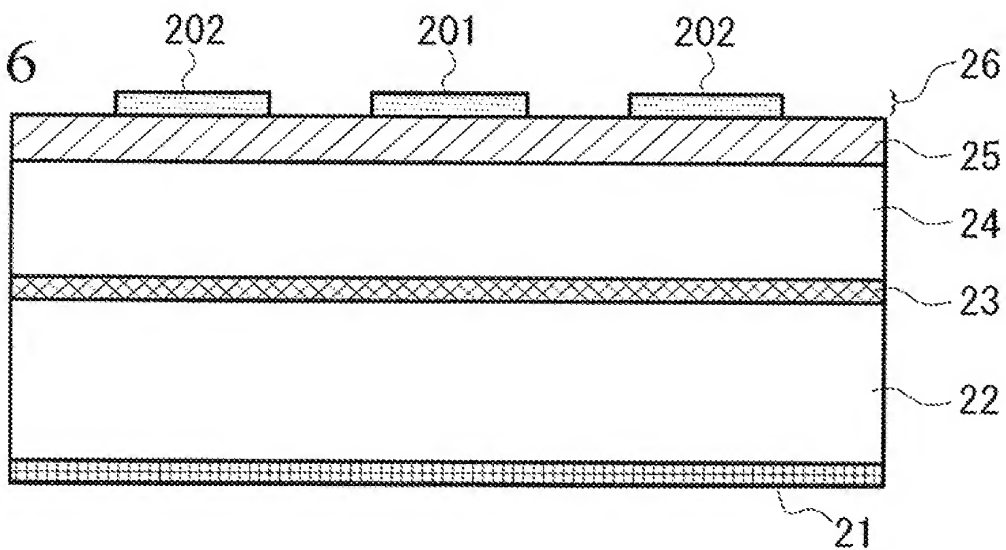


FIG. 7

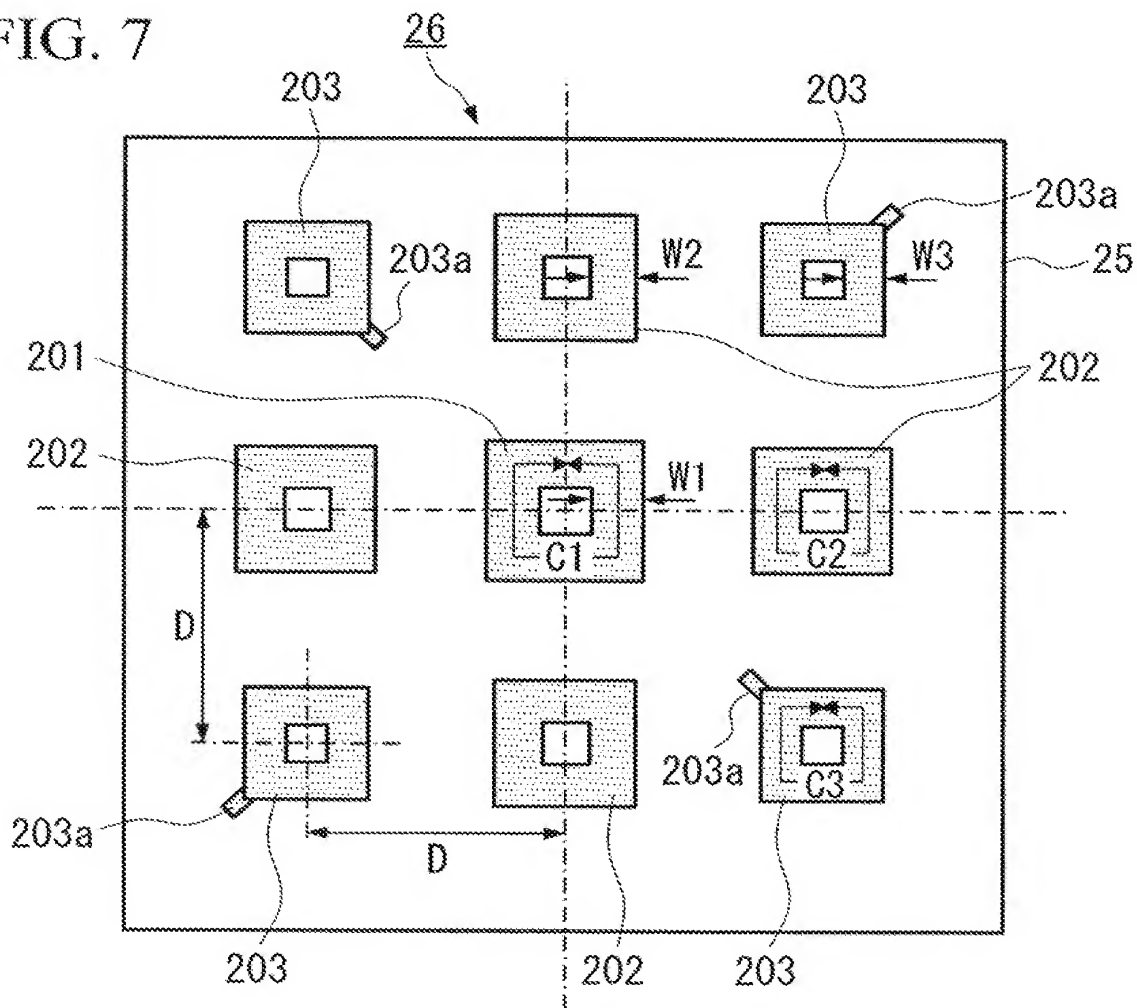
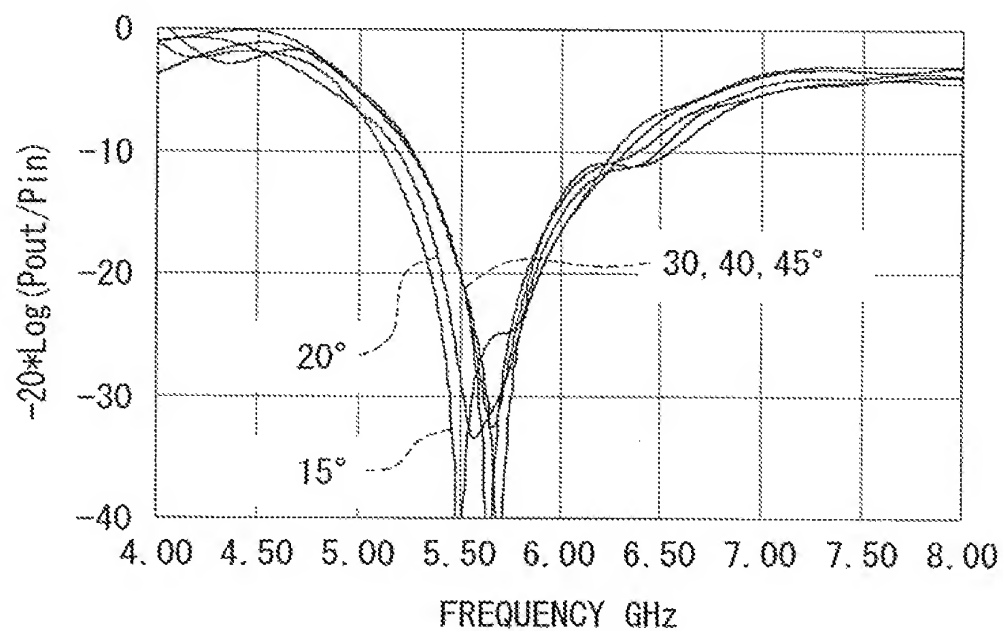


FIG. 8



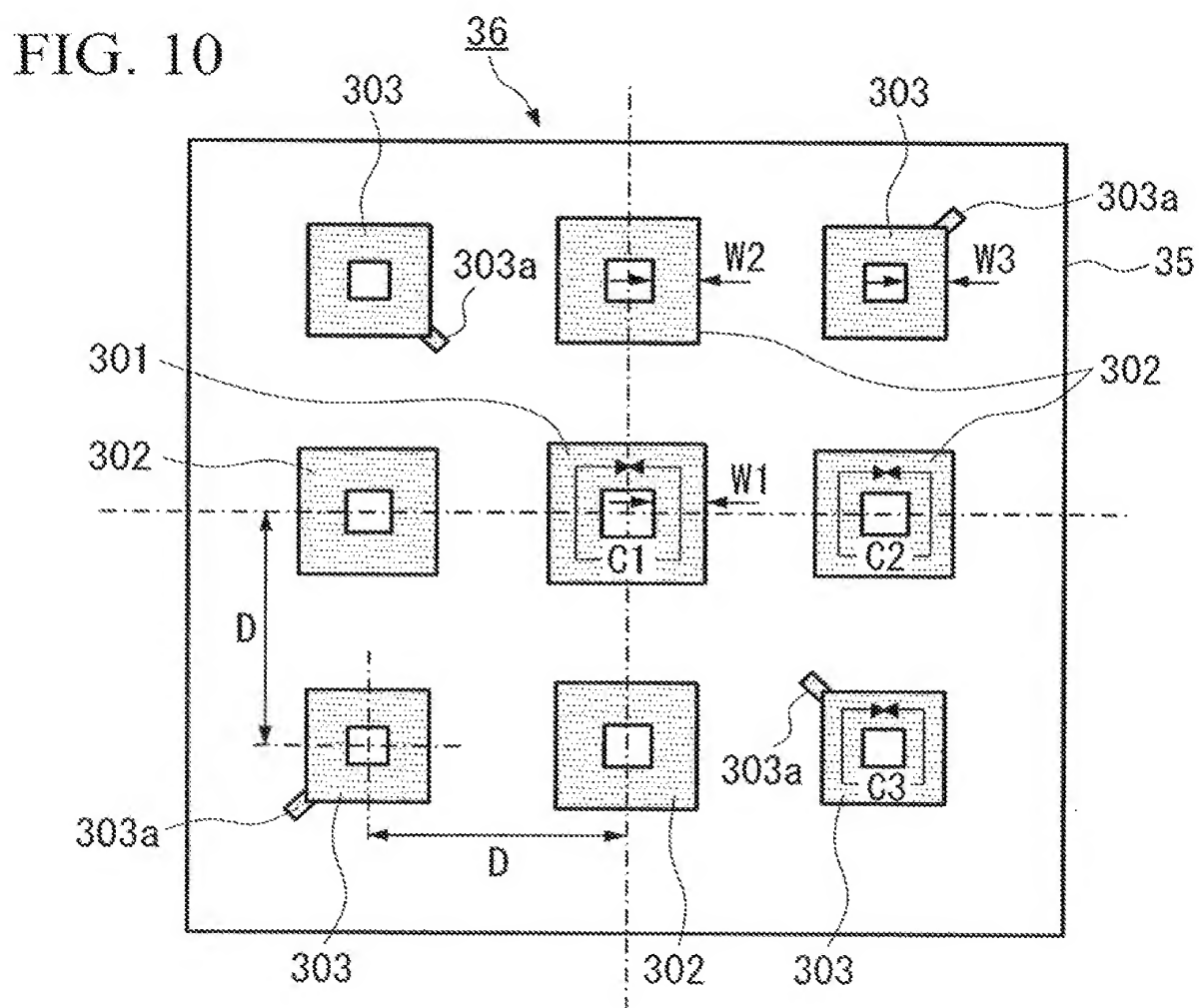
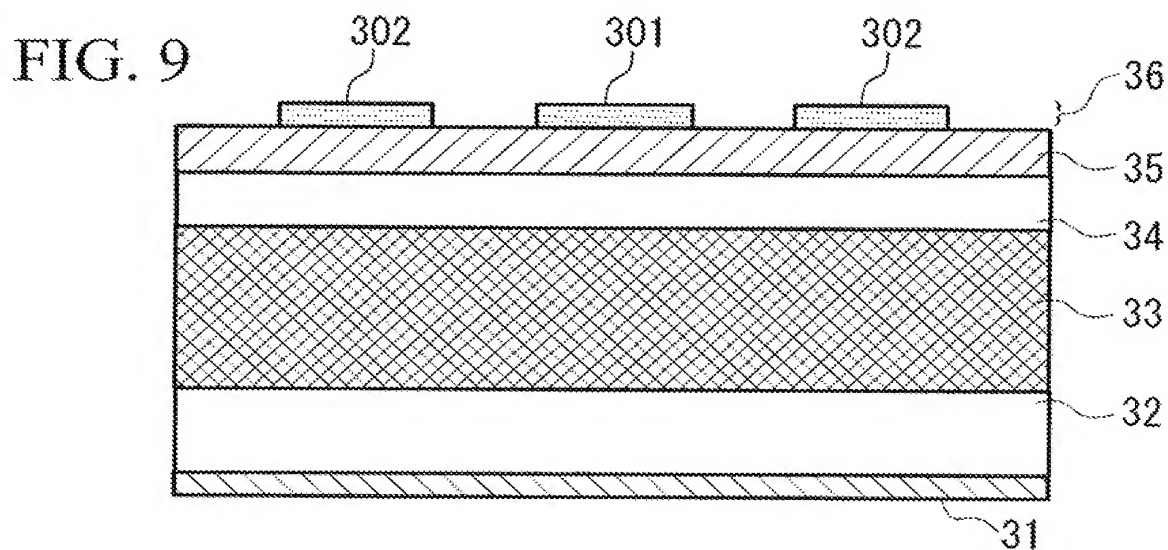


FIG. 11

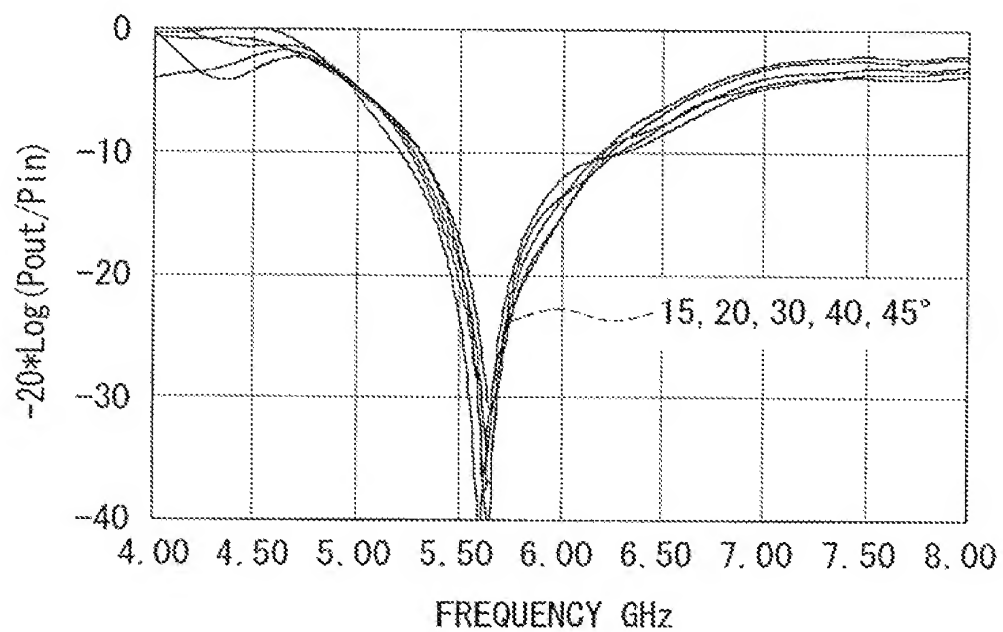


FIG. 12

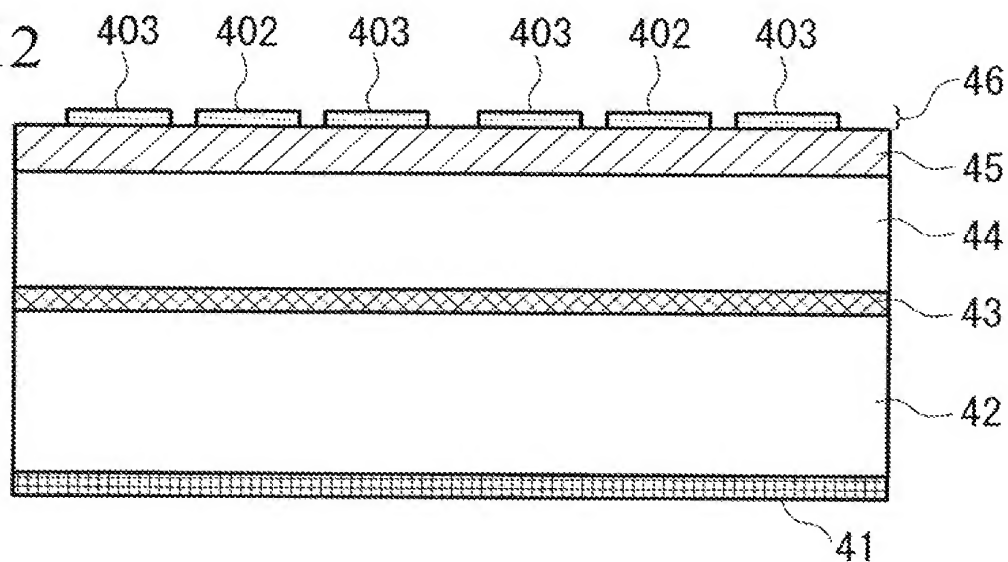
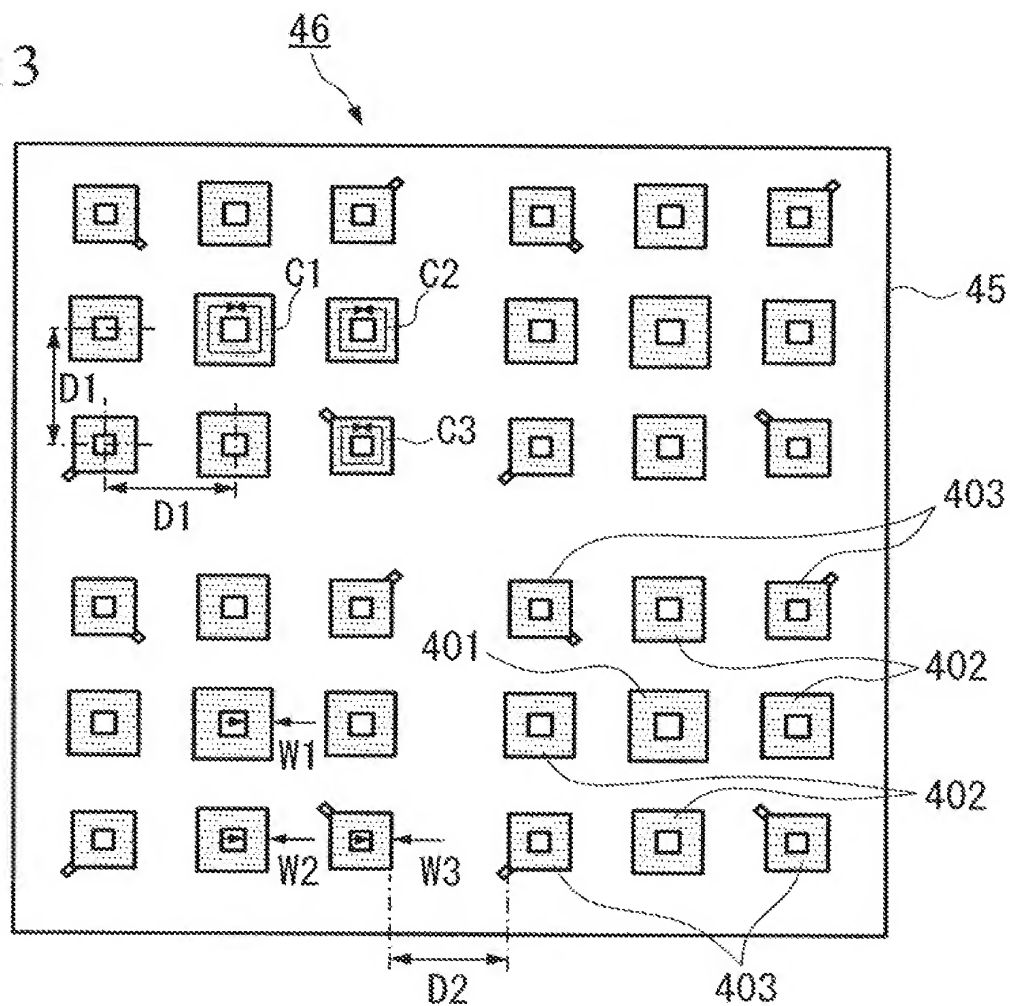


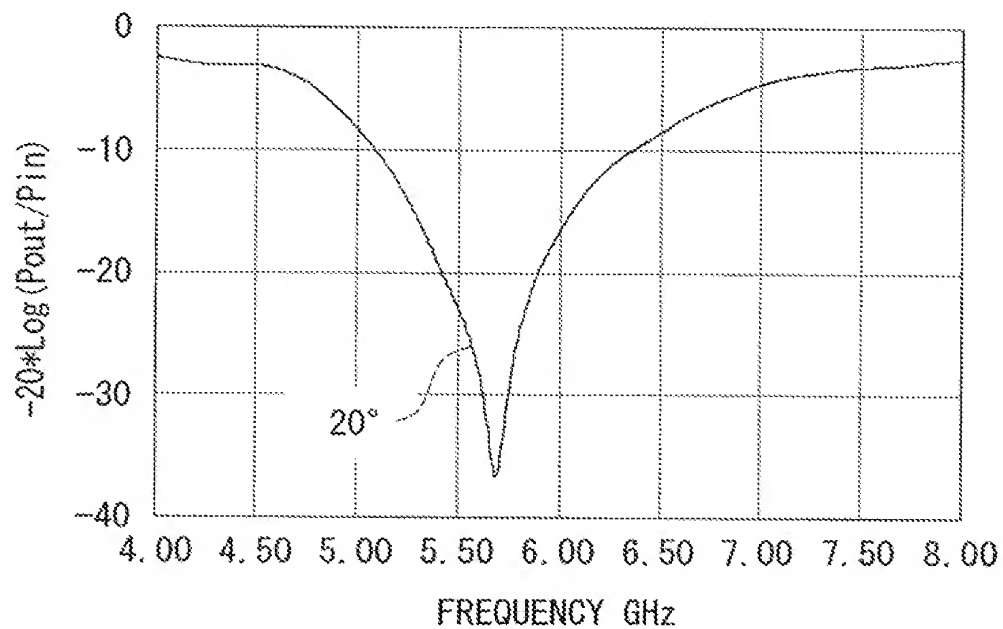
FIG. 13





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FIG. 14



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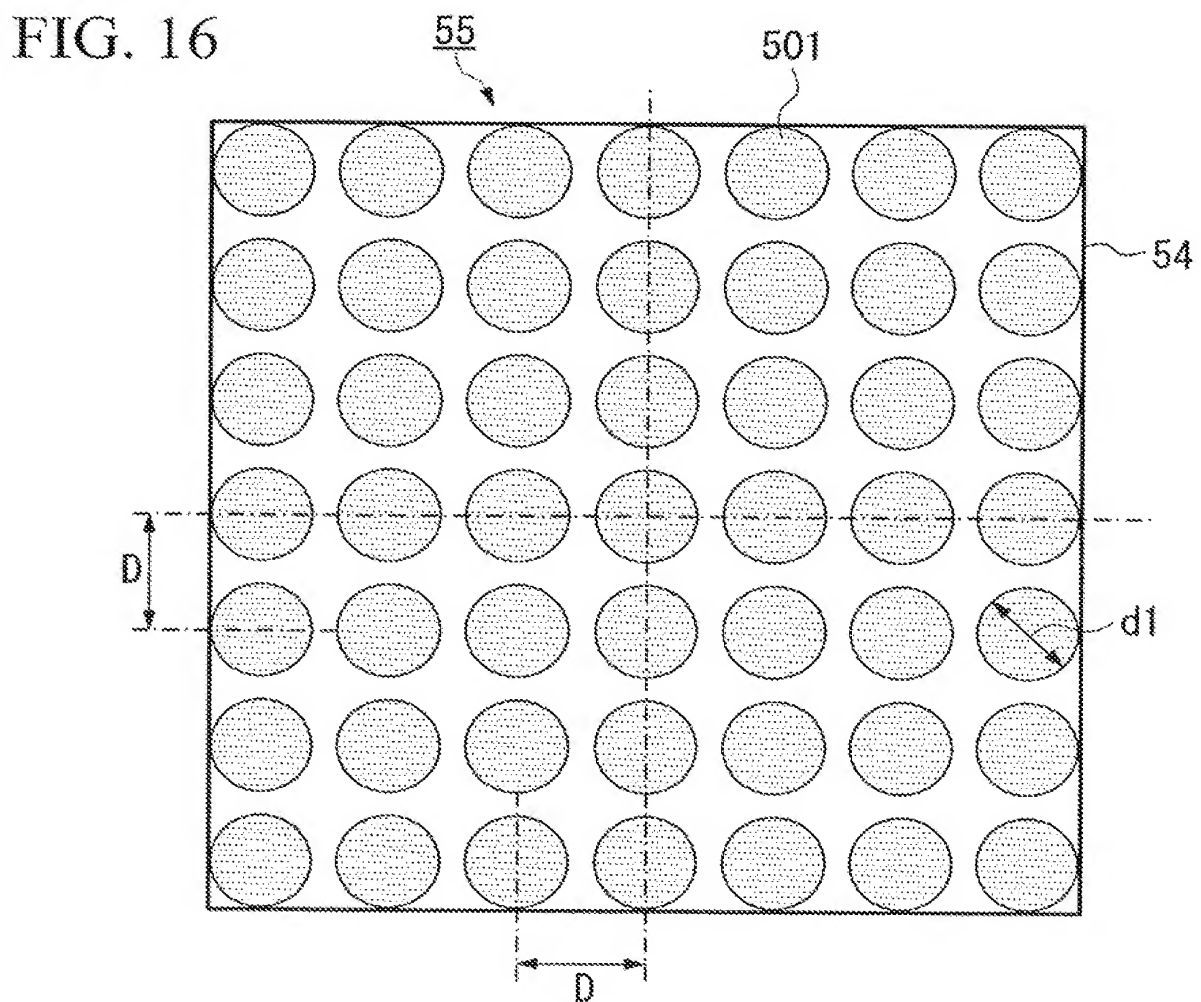
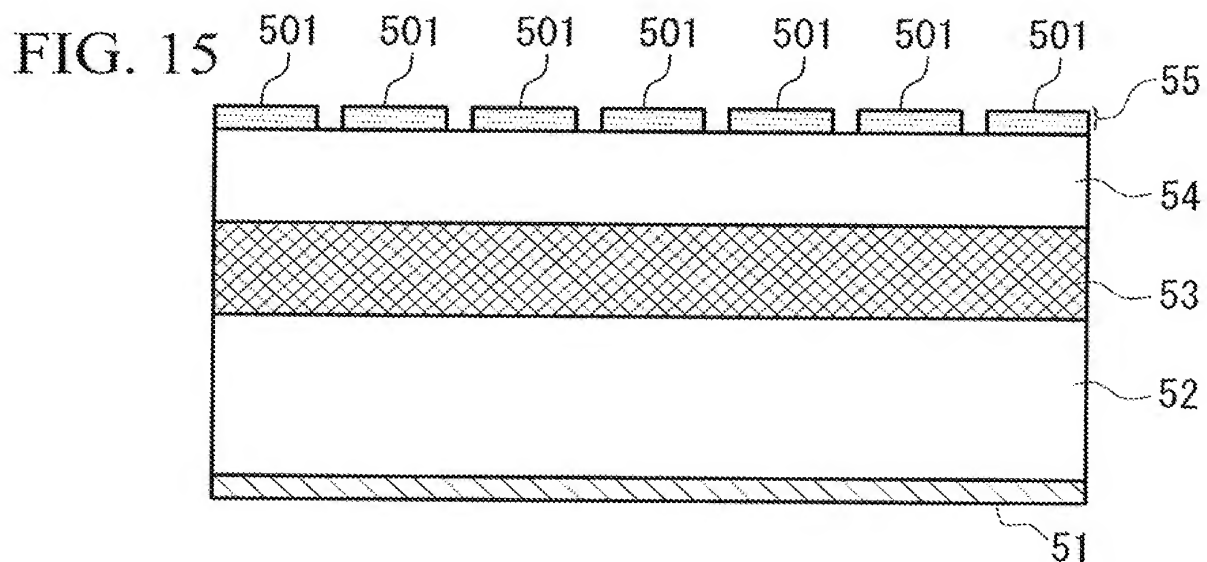


FIG. 17

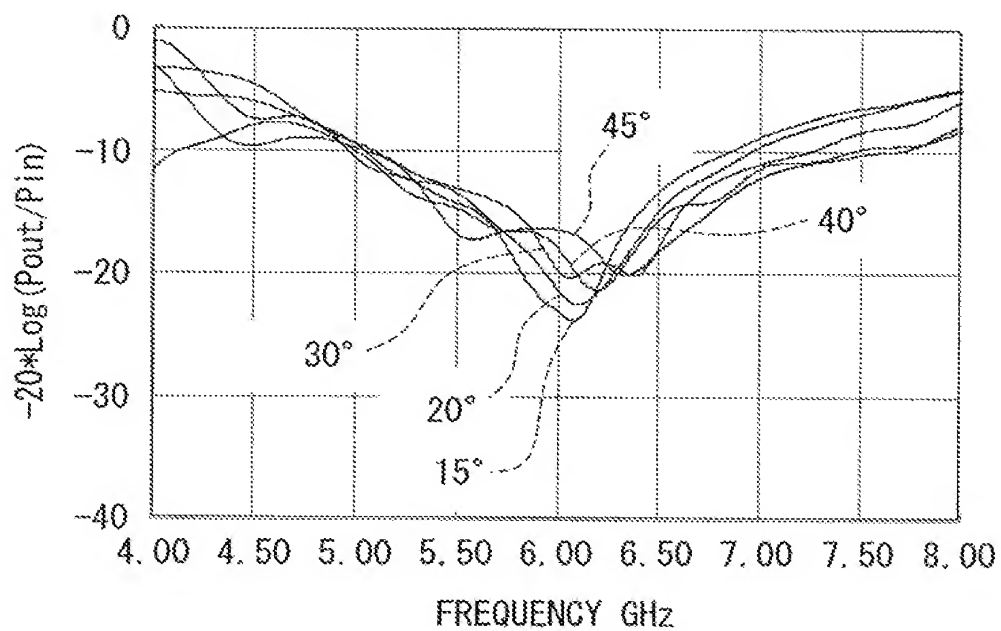


FIG. 18

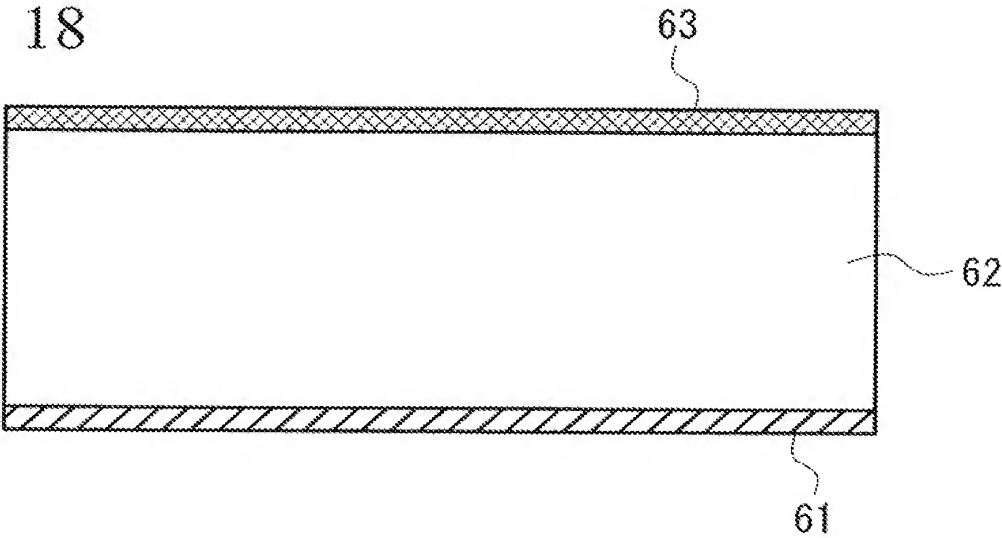


FIG. 19

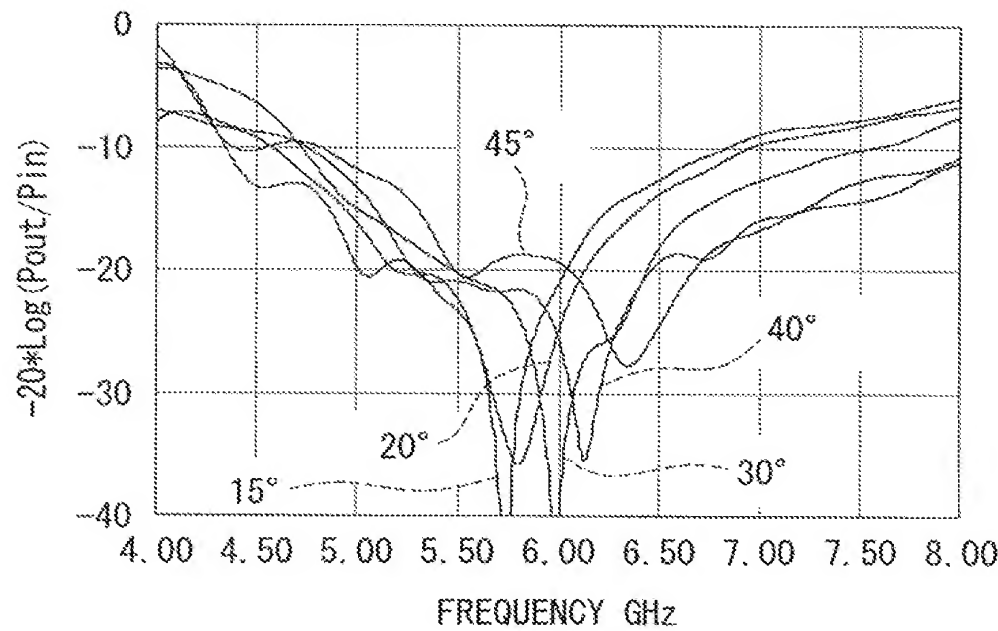


FIG. 21

2016

2101

2102

2103

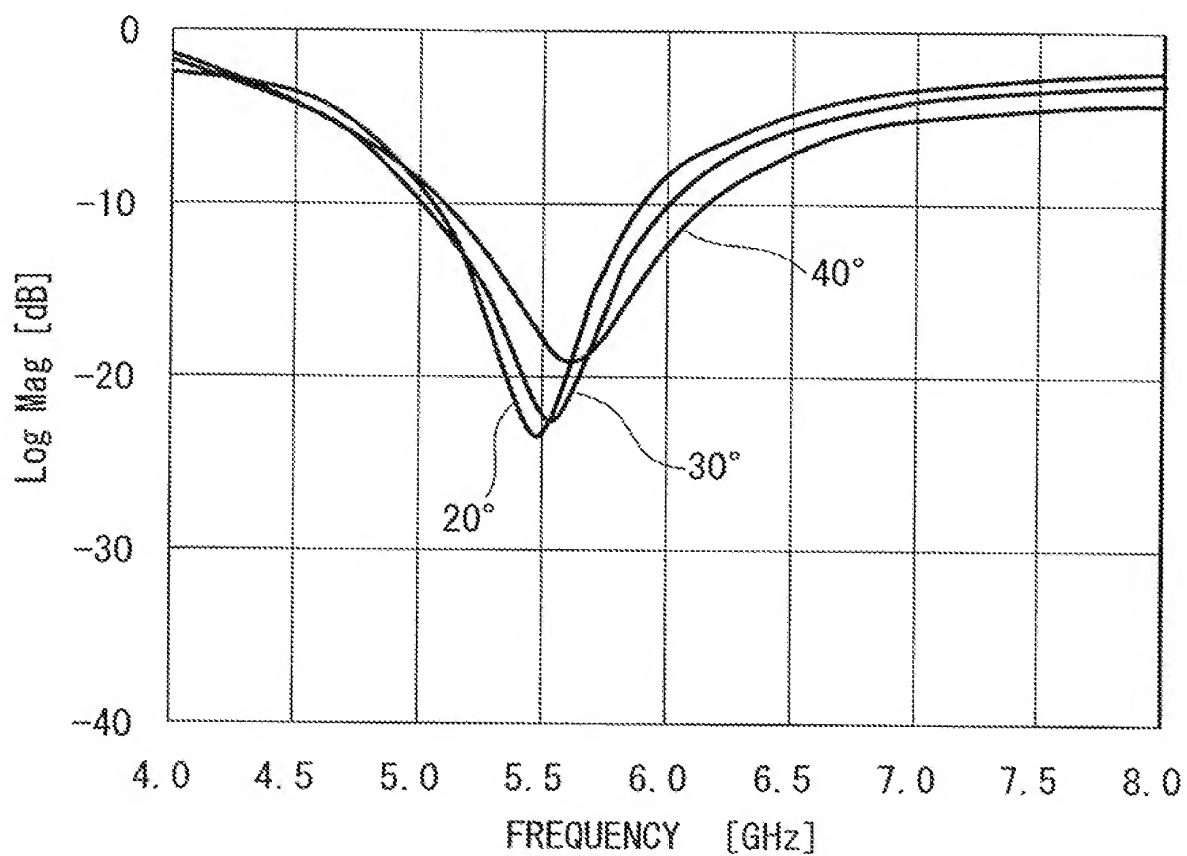
W1

C1

D1

D2

FIG. 22



A cross-sectional view of a semiconductor device 23. The device consists of a substrate 201 with a bottom layer 202. Above the bottom layer is a large central region 203. The top of the device is covered by a top layer 204, which is further divided into a thin layer 205 and a thicker layer 206. On the top layer 206, there are three rectangular features: two labeled 2202 and one labeled 2201 in the center. A bracket on the right side of the top layer indicates the entire top structure as 207.

FIG. 25

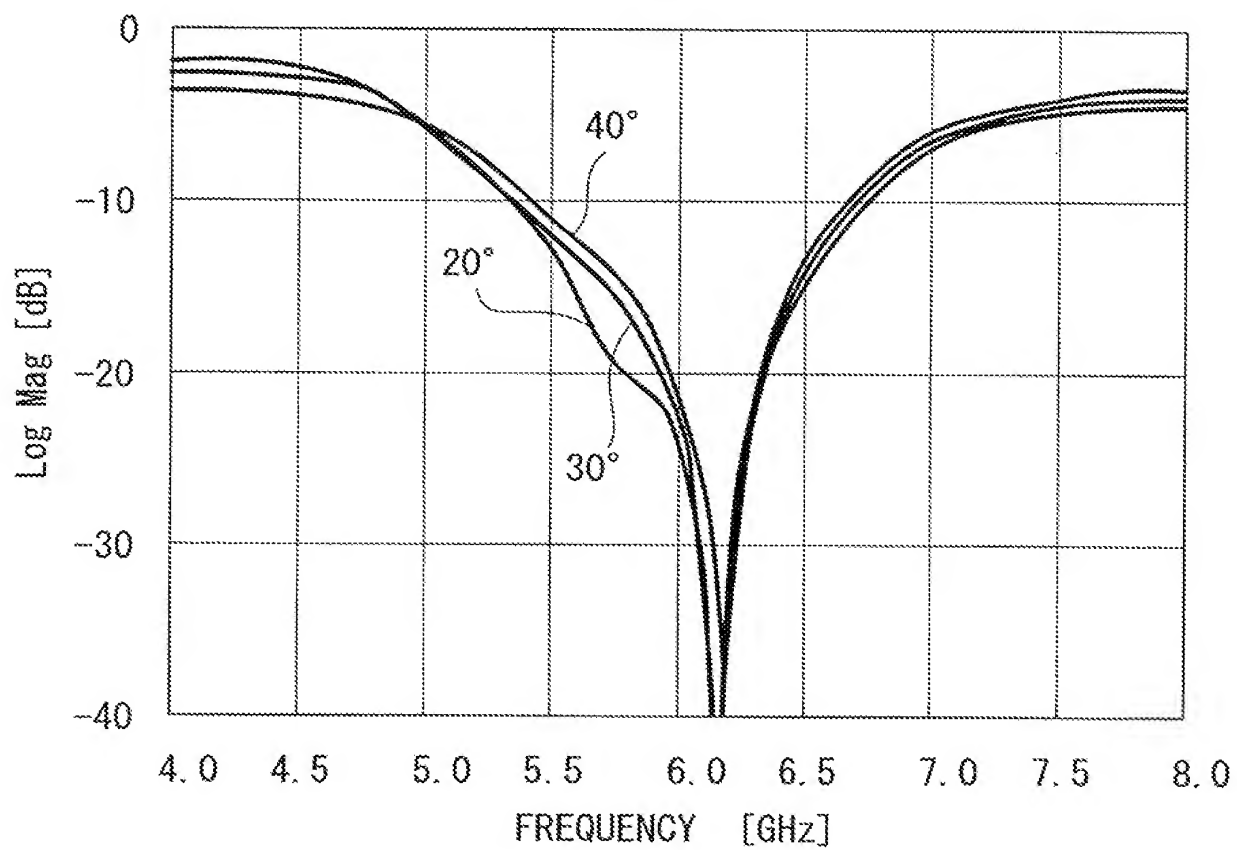




FIG. 26

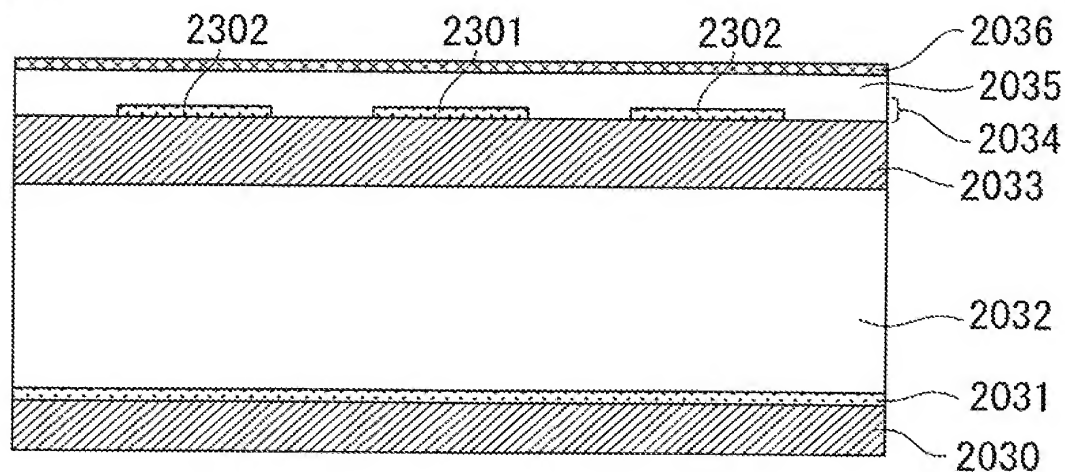


FIG. 27

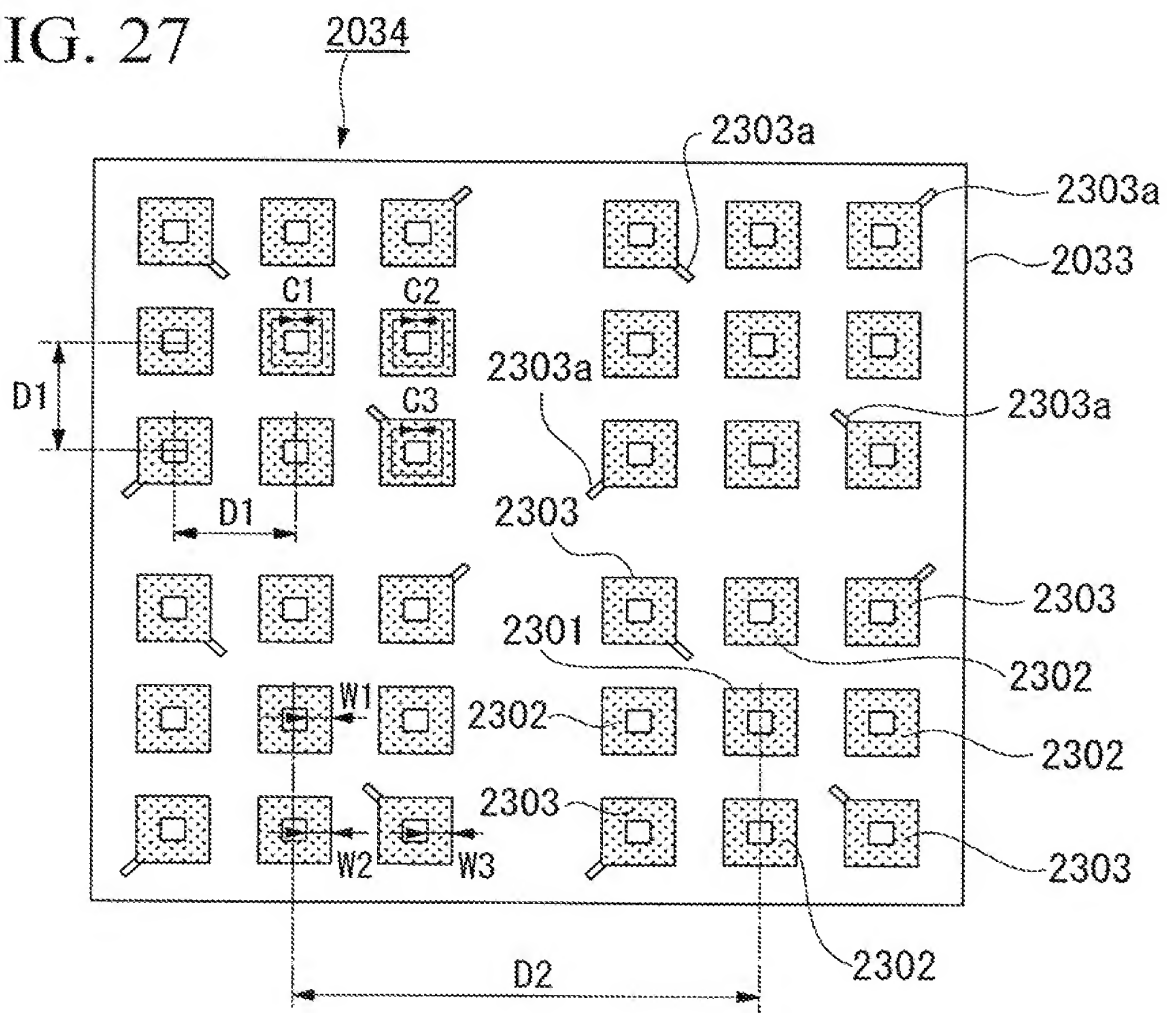


FIG. 28

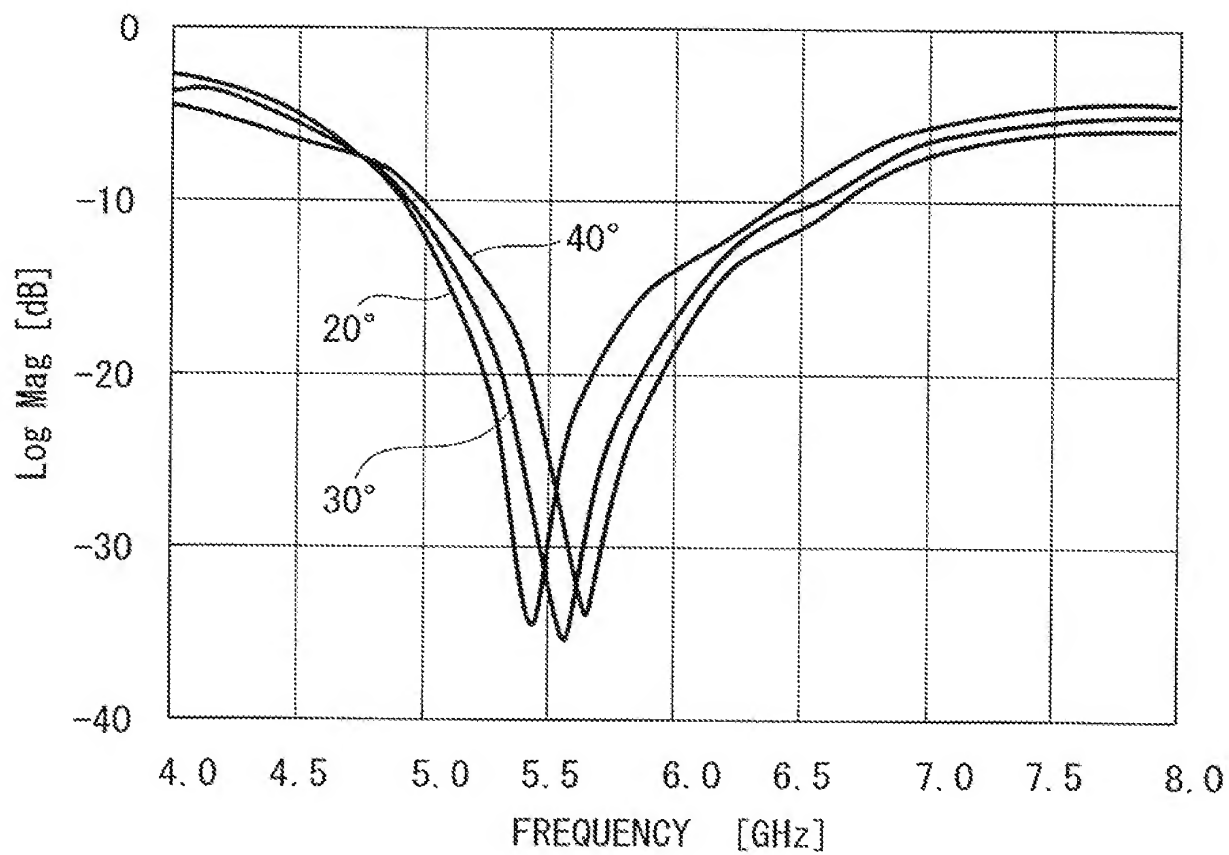


FIG. 29

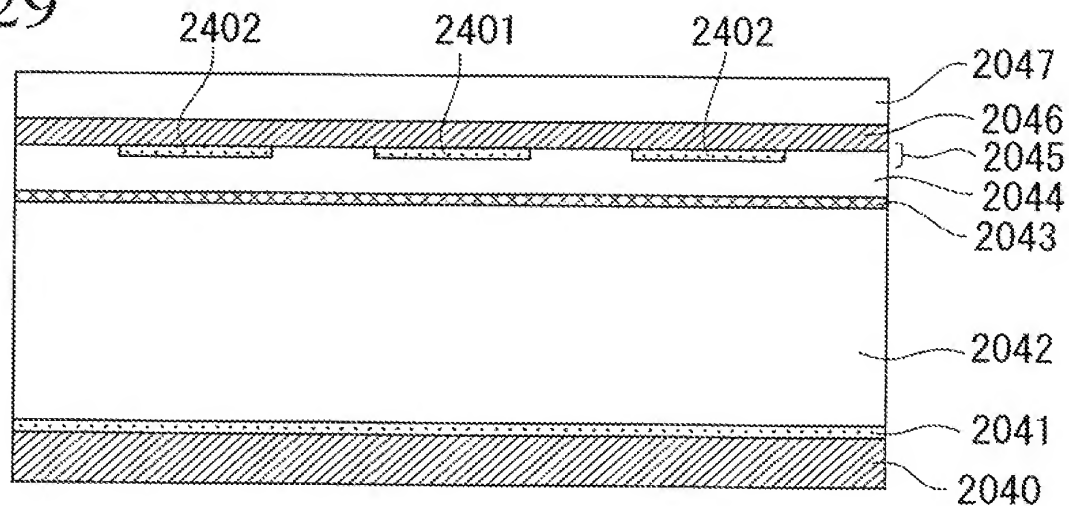


FIG. 30

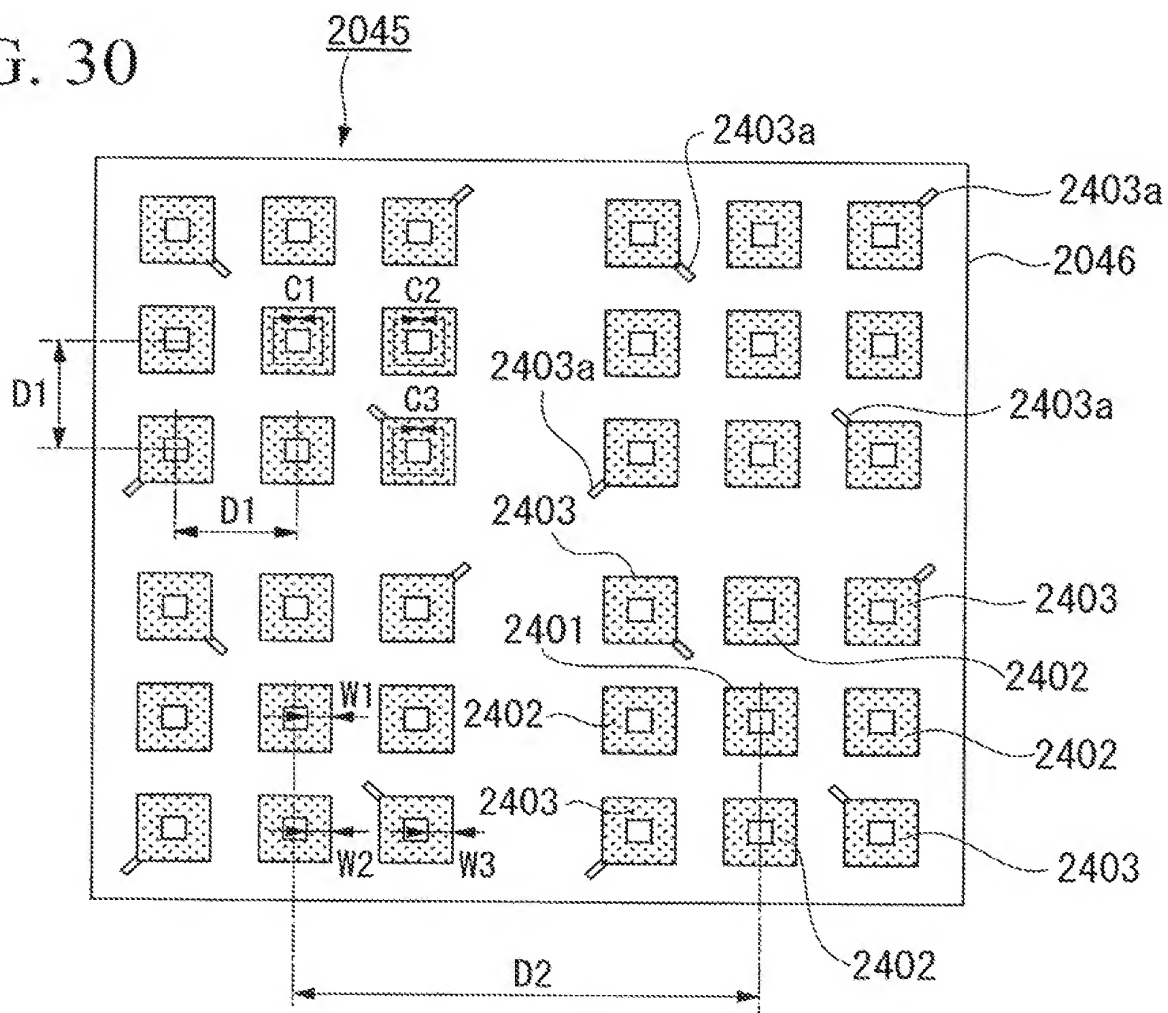


FIG. 31

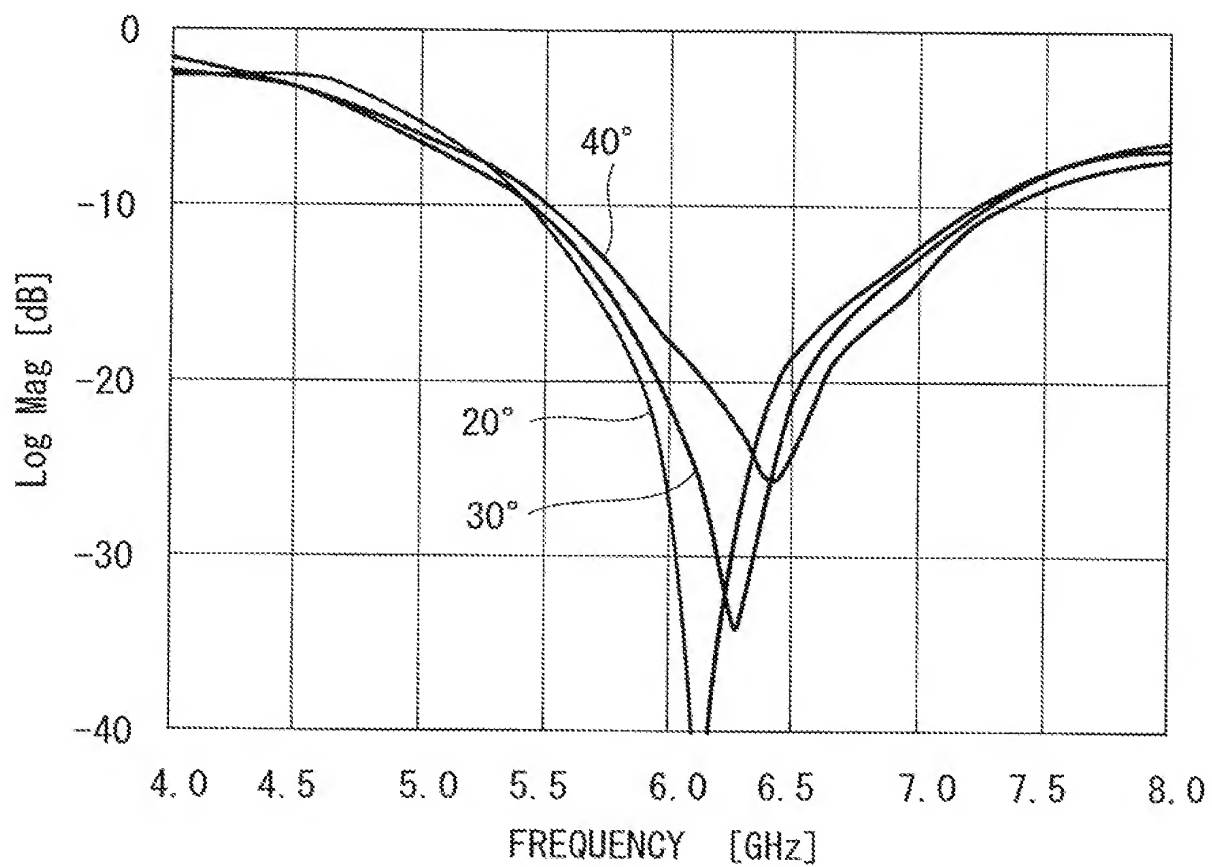


FIG. 32

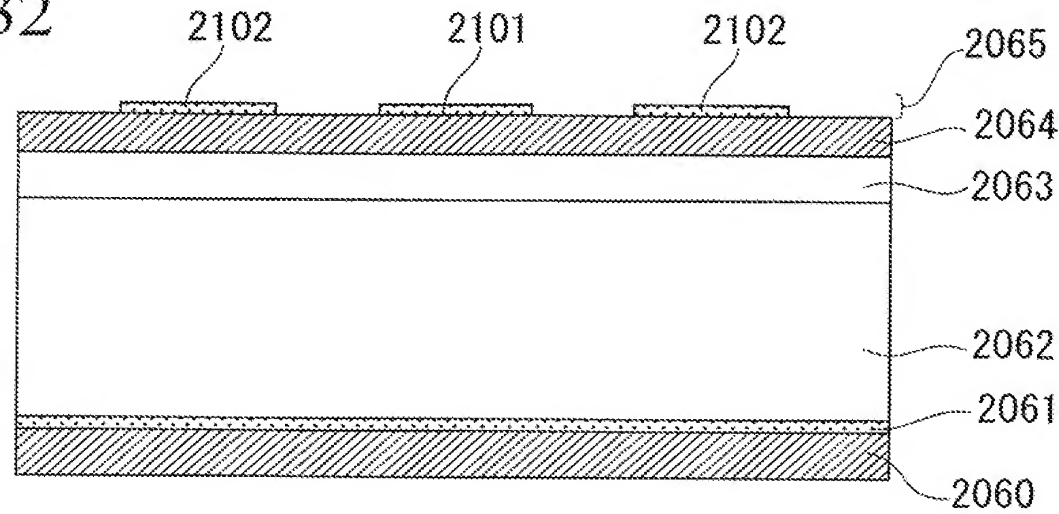
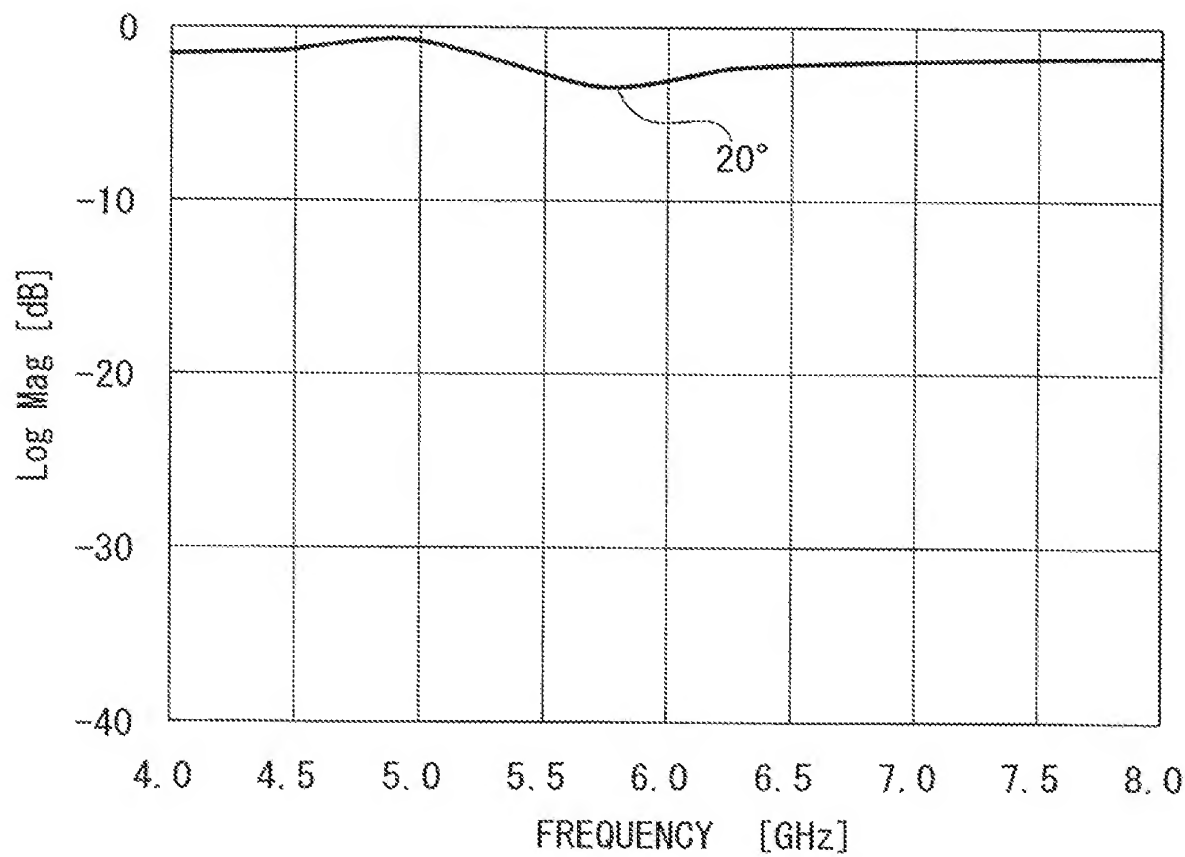


FIG. 33



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FIG. 34

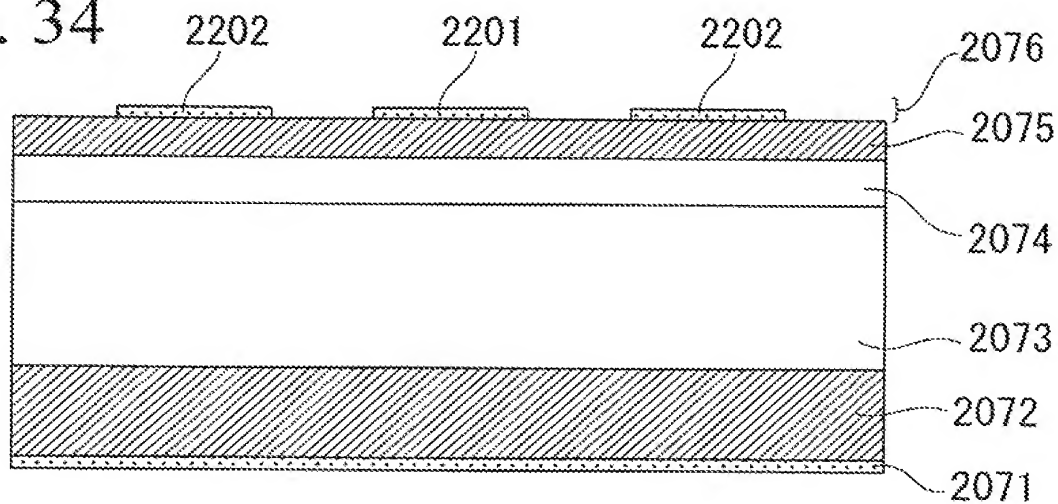
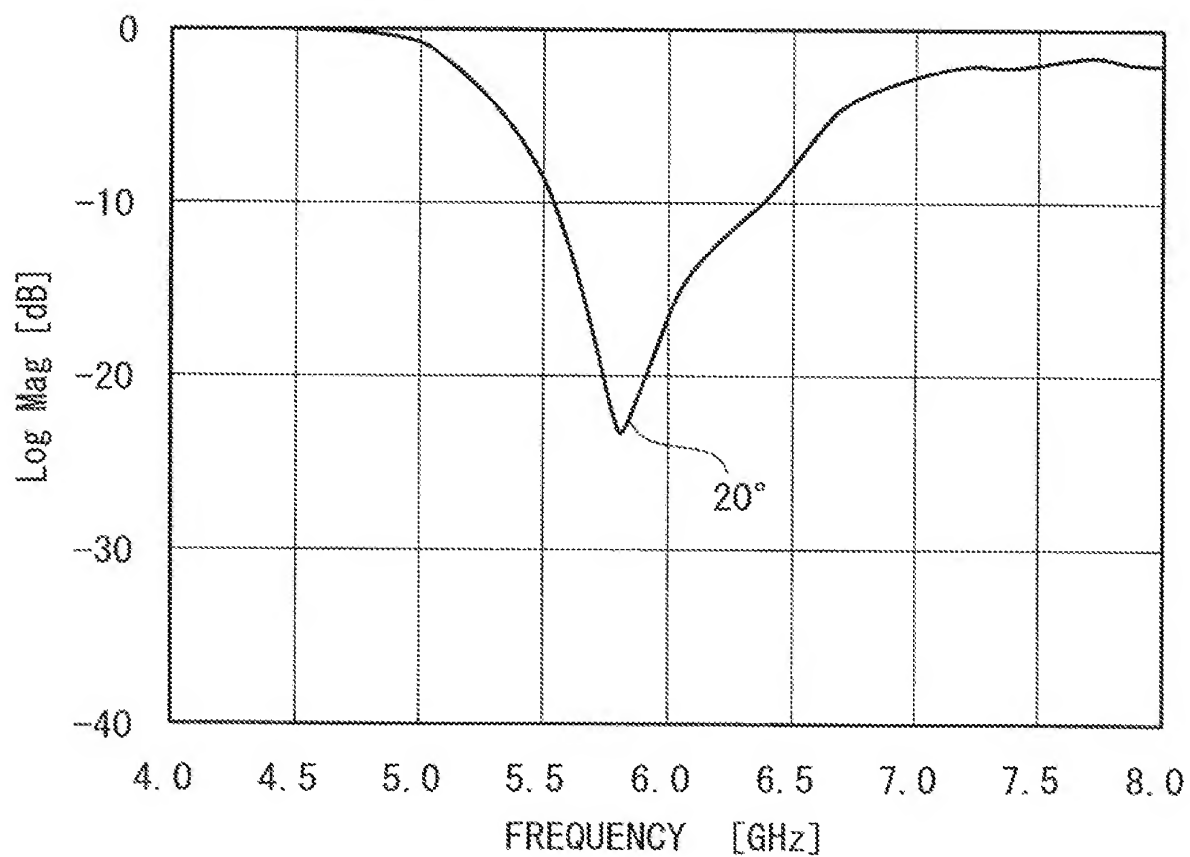


FIG. 35



A cross-sectional view of a substrate assembly 3000. The assembly consists of a substrate 3010 with a top surface 3011 and a bottom surface 3012. A cross-hatched layer 3013 is disposed on the top surface 3011. A layer 3014 is disposed on the cross-hatched layer 3013. Three openings 3101 are formed in the layer 3014, and each opening 3101 is filled with a material 3102. A bracket 3015 indicates the top portion of the assembly, including the layer 3014 and the openings 3101.

Figure G.37 is a schematic diagram of a 6x6 array of square elements 3103 within a rectangular frame 3015. The elements are arranged in a grid. Some elements are labeled 3101, 3102, 3103a, and 3103b. Dimensions D1 and D2 are indicated. Specific elements are labeled C1, C2, and C3. Dimensions W1, W2, and W3 are also shown.

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FIG. 38

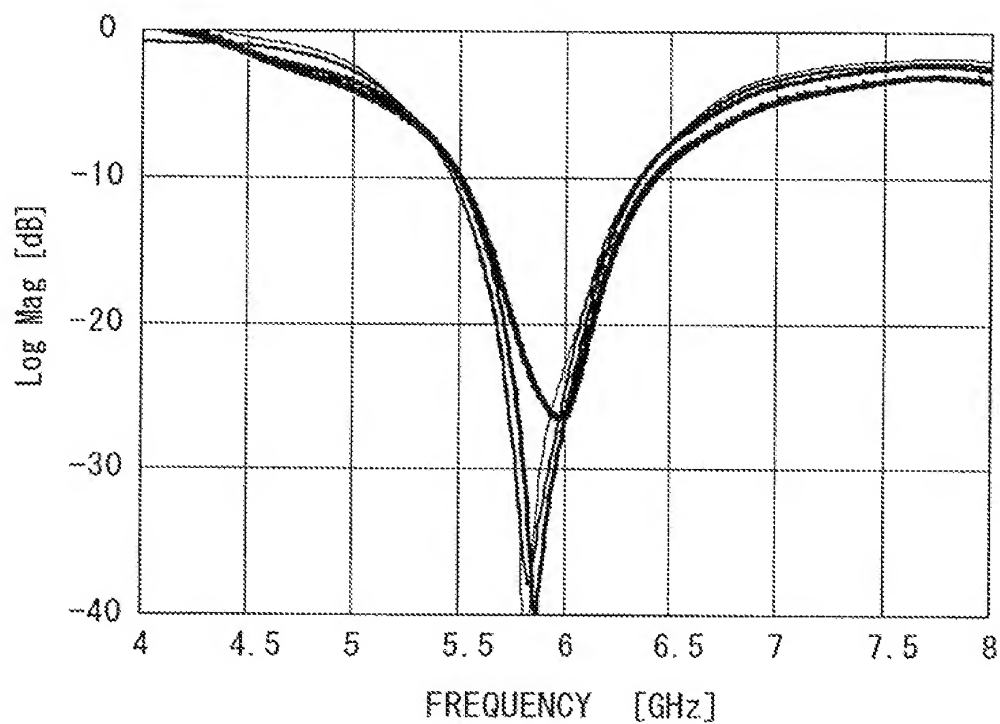


FIG. 39

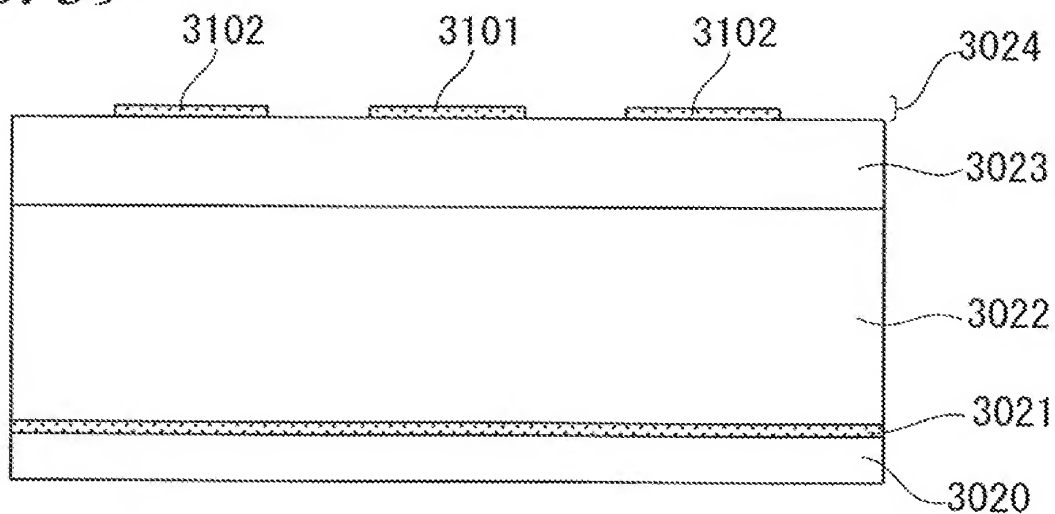
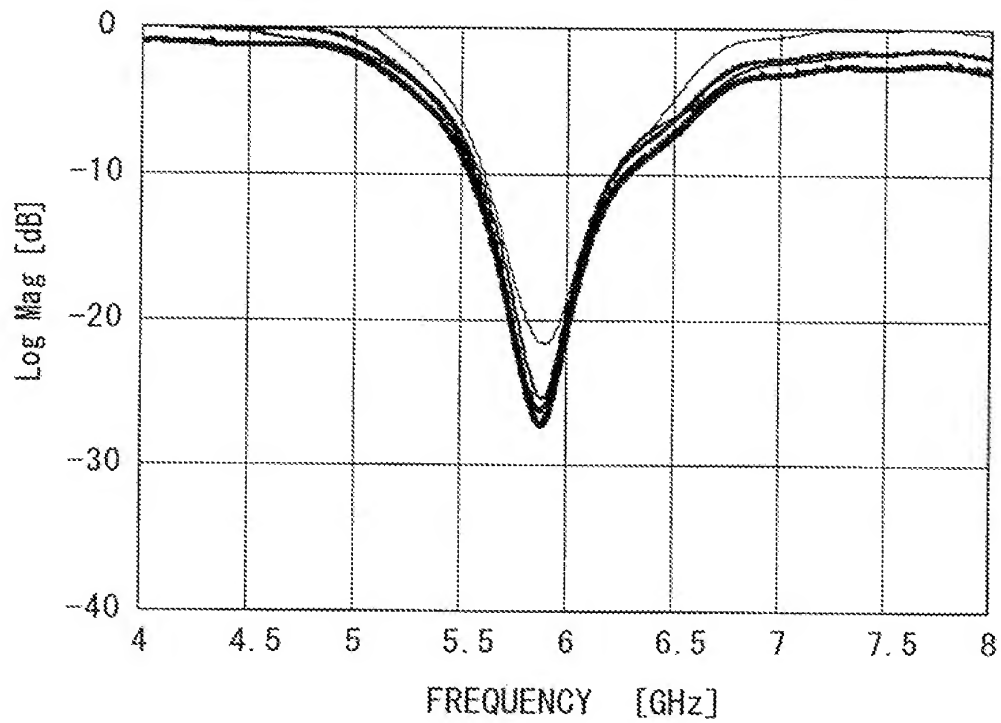




FIG. 40



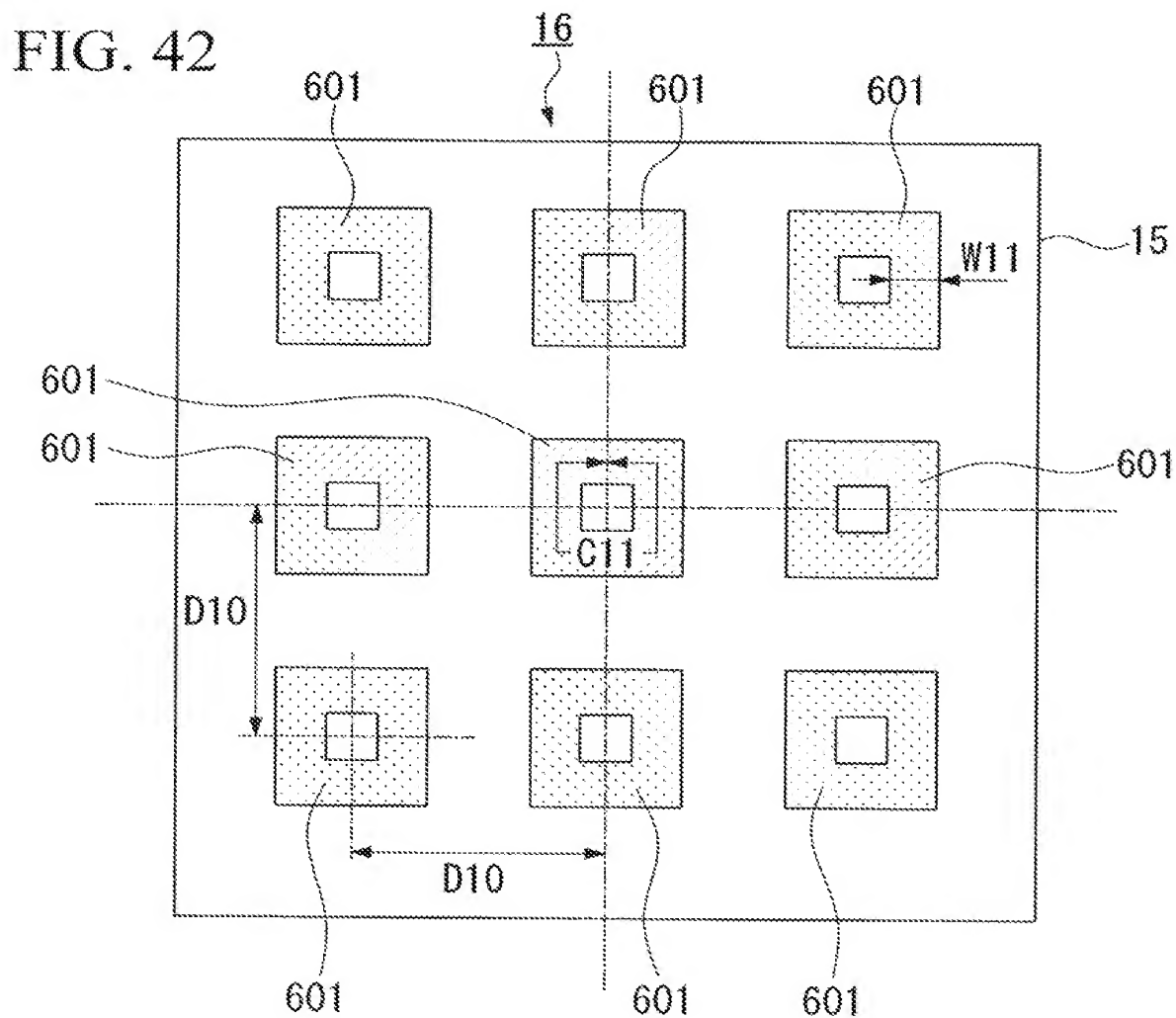
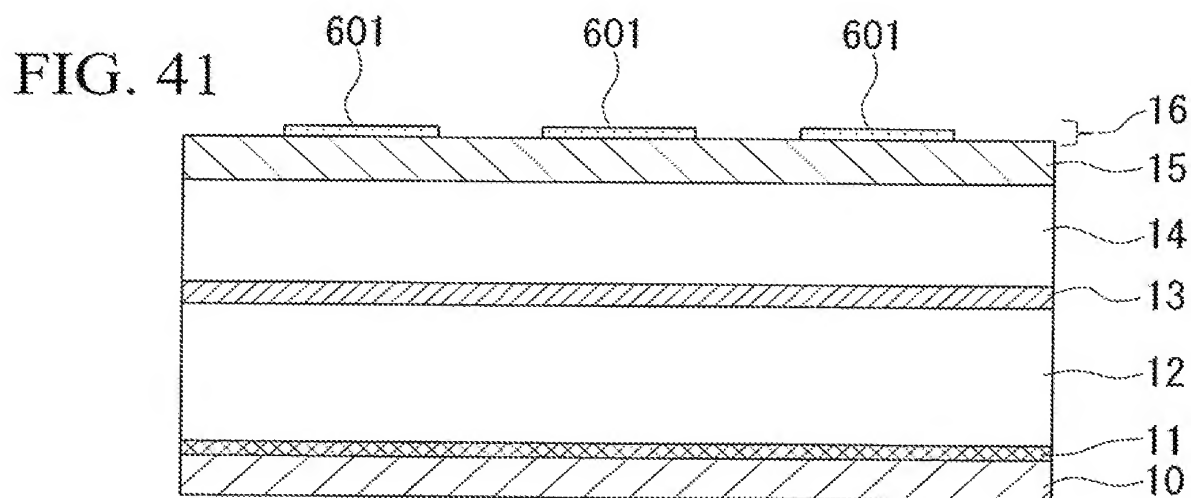
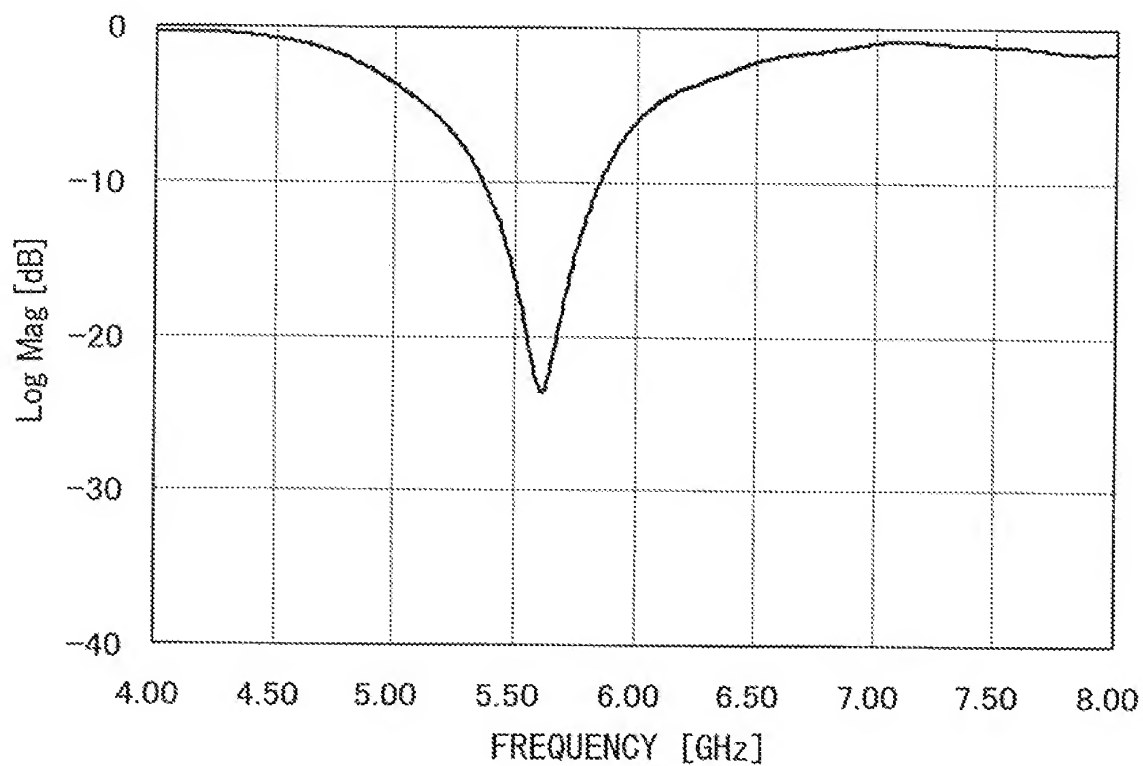
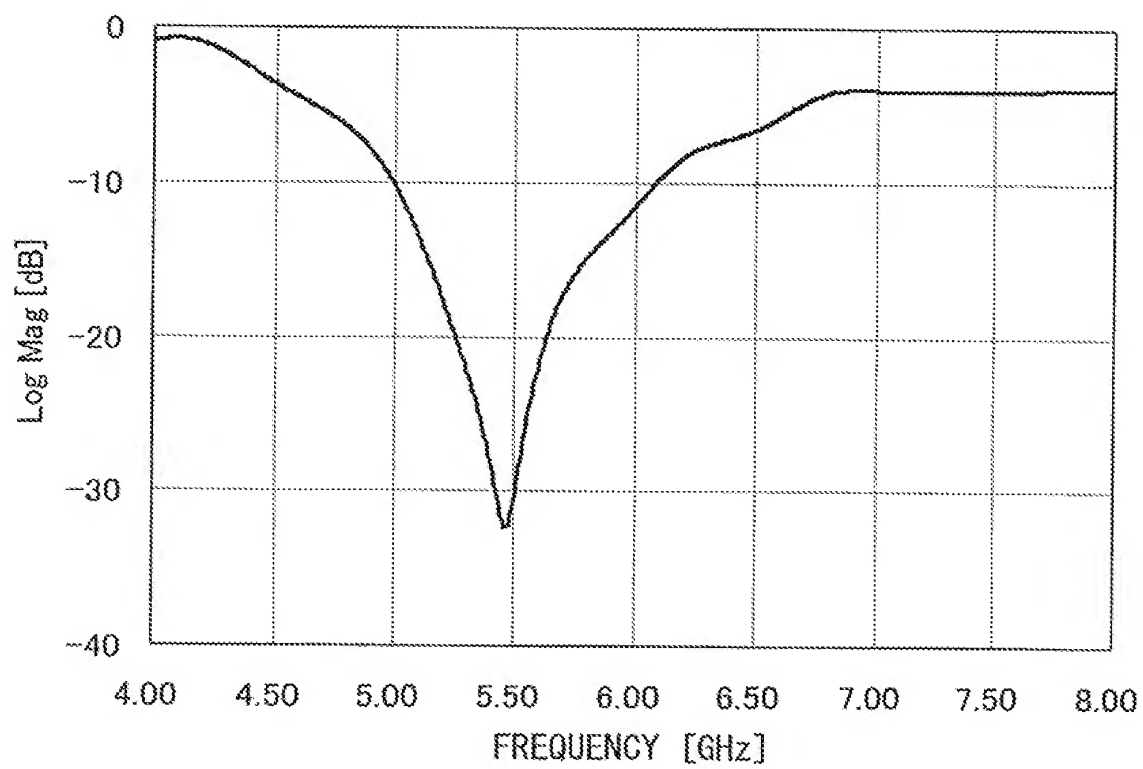


FIG. 43



[illegible][illegible]

FIG. 46



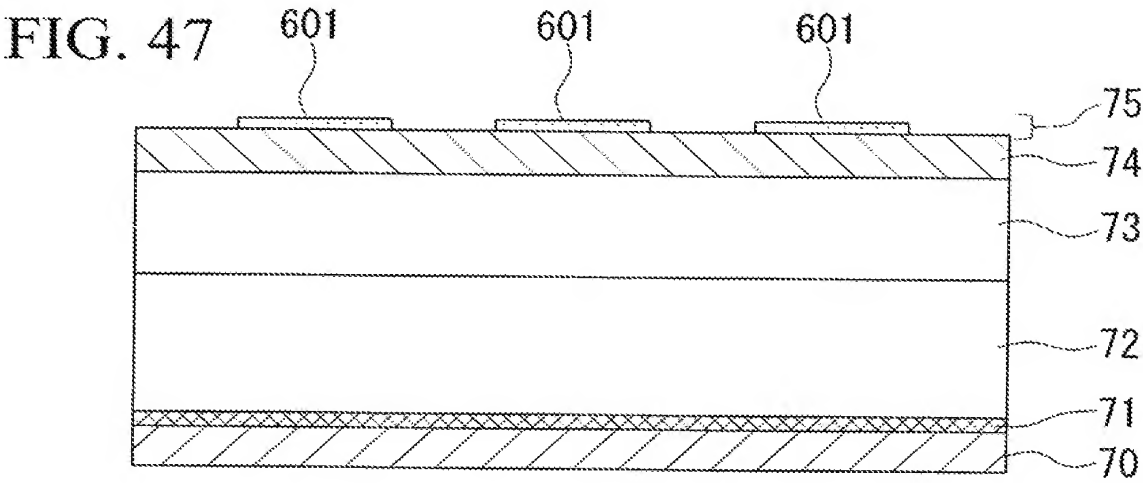
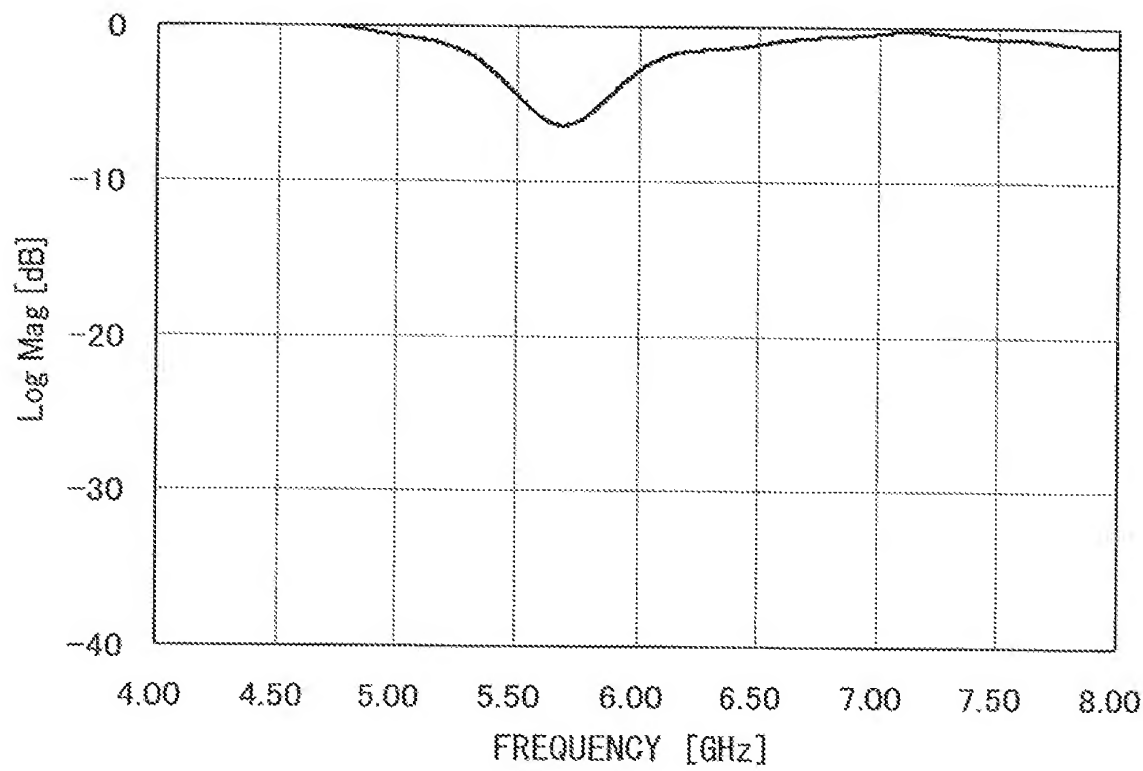


FIG. 48



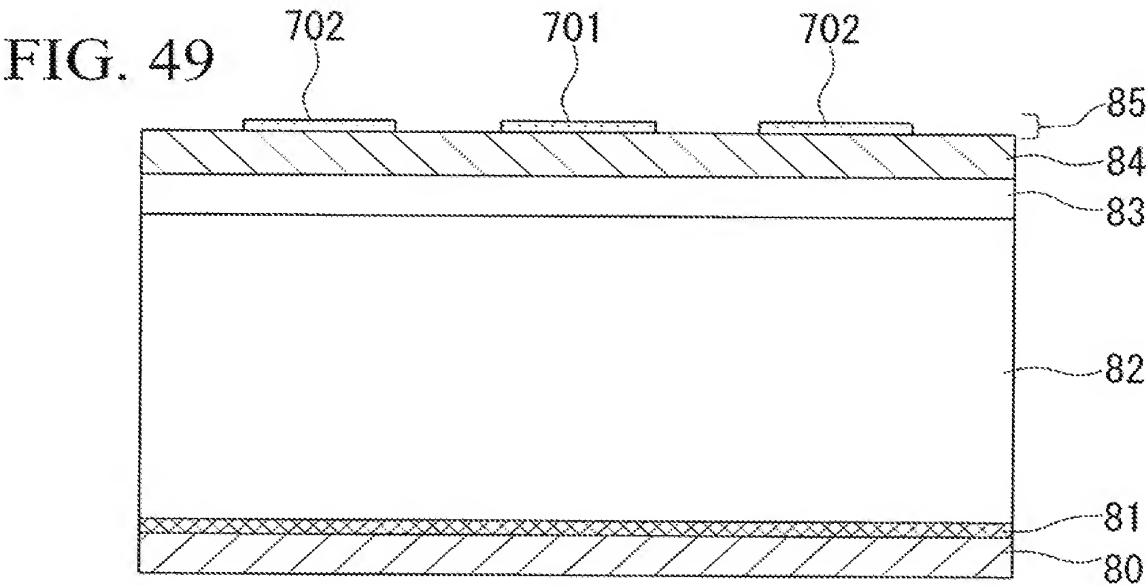


FIG. 50

